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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Repairs and Maintaenance of Roads and Drains in Ward No.06 Byatarayanapura Sub Division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (200mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	6 set /100-150 cum	111.4	12	12

Assistant Executive Engineer
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-07-25-46** **Date: 15-06-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP,
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Maintaenance of Roads and Drains in Ward No.06 Byatarayanapura Sub Division.
Agency	:	M/S K R Constructions Prop:C Mahesh No.286, 7th B Cross, Jakkur, Layout, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/05/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-06-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	13-06-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.45	–
2	Finess by Air permeablity method (m^2/kg,Min)	281.9	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	27.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements

Note:

The results pertain to the samples received and tested.

All information furnished by Customer Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 11-07-22

Lab ID	:	CP-2022-07-25-46
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Maintaenance of Roads and Drains in Ward No.06 Byatarayanapura Sub Division.
Agency	:	M/S K R Constructions Prop.C Mahesh No.286, 7th B Cross, Jakkur, Layout, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/05/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-06-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	13-06-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-07-25-46** **Date: 15-06-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Maintaenance of Roads and Drains in Ward No.06 Byatarayanapura Sub Division.
Agency	:	M/S K R Constructions Prop.C Mahesh No.286, 7th B Cross, Jakkur, Layout, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/05/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	11-06-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-06-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5623	6046	40.3	59.7	30-70
4	10 mm	4333	10379	69.2	30.8	10-35
5	4.75 mm	4143	14522	96.8	3.2	0-5
6	Pan	478	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-07-25-46** **Date: 15-06-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.7	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.25	–

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2022-07-25-46 **Date: 15-06-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Maintaenance of Roads and Drains in Ward No.06 Byatarayanapura Sub Division.
Agency	:	M/S K R Constructions Prop.C Mahesh No.286, 7th B Cross, Jakkur, Layout, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/05/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-06-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-06-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	234	234	4.7	95.3	90-100
3	10 mm	2478	2712	54.2	45.8	25-55
4	4.75 mm	2100	4812	96.2	3.8	0-10
5	Pan	188	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-07-25-46** **Date: 15-06-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	22.7	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-07-25-46 **Date: 15-06-22**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Repairs and Maintaenance of Roads and Drains in Ward No.06 Byatarayanapura Sub Division.

Agency : M/S K R Constructions Prop.C Mahesh No.286, 7th B Cross, Jakkur, Layout, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/05/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-06-22

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 11-06-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	132	214	21.4	78.6	60-95	75-100	85-100	95-100
4	1.18 mm	155	369	36.9	63.1	30-70	55-90	75-100	90-100
5	600 micron	179	548	54.8	45.2	15-34	35-59	60-79	80-100
6	300 micron	188	736	73.6	26.4	5-20	8-30	12-40	15-50
7	150 micron	186	922	92.2	7.8	0-10	0-10	0-10	0-15
8	Pan	78	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Assistant Executive Engineer
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TEST REPORT OF FINE AGGREGATE

Date: 15-06-22

Lab ID	:	CP-2022-07-25-46
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Maintaenance of Roads and Drains in Ward No.06 Byatarayanapura Sub Division.
Agency	:	M/S K R Constructions Prop.C Mahesh No.286, 7th B Cross, Jakkur, Layout, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/05/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-06-22
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	11-06-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	132	214	21.4	78.6	60-95	75-100	85-100	95-100
4	1.18 mm	155	369	36.9	63.1	30-70	55-90	75-100	90-100
5	600 micron	179	548	54.8	45.2	15-34	35-59	60-79	80-100
6	300 micron	188	736	73.6	26.4	5-20	8-30	12-40	15-50
7	150 micron	186	922	92.2	7.8	0-10	0-10	0-10	0-15
8	Pan	78	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Assistant Executive Engineer
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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-07-25-46** **Date: 15-06-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.15	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	5.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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Byatarayanapura Sub Division
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TEST RESULTS OF STEEL

Lab ID	:	**CP-2022-07-25-46** **Date: 20-06-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Maintaenance of Roads and Drains in Ward No.06 Byatarayanapura Sub Division.
Agency	:	M/S K R Constructions Prop.C Mahesh No.286, 7th B Cross, Jakkur, Layout, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/05/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-06-22
Sample Type	:	INDUS
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	18-06-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	INDUS	Fe500	8	0.393	532	566	21.0%	Satisfactory	Satisfactory
2	INDUS	Fe500	10	0.615	549	583	20.0%	Satisfactory	Satisfactory
3	INDUS	Fe500	12	0.887	572	592	20.0%	Satisfactory	Satisfactory

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Certificate No : TC-5548

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2022-07-25-46** **Date: 12-07-22**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Maintaenance of Roads and Drains in Ward No.06 Byatarayanapura Sub Division.
Agency	:	M/S K R Constructions Prop.C Mahesh No.286, 7th B Cross, Jakkur, Layout, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/05/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-07-22
Sample Type /Size	:	Precast Cover Slab-100mm Thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	08/07/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.52	100.03	1.255	4478	96.8	21.6	20.1	25.1
2	Cover Slab-2	75.51	100.04	1.235	4477	99.7	22.3	20.7	25.9
3	Cover Slab-3	75.51	100.02	1.345	4477	98.6	22.0	20.5	25.6

* The results obtained are satisfactory as per standard requirements.

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
BBMP

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TEST REPORT OF PRECAST COVER SLAB

Date: 12-07-22

Lab ID	:	CP-2022-07-25-46
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Maintaenance of Roads and Drains in Ward No.06 Byatarayanapura Sub Division.
Agency	:	M/S K R Constructions Prop.C Mahesh No.286, 7th B Cross, Jakkur, Layout, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/05/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-07-22
Sample Type /Size	:	Precast Cover Slab-230mm Thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	08/07/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	230.02	2.585	31570	685.1	21.7	20.2	25.2
2	Cover Slab-2	200.49	230.03	2.492	31564	699.7	22.2	20.6	25.8
3	Cover Slab-3	200.49	230.01	2.548	31564	691.7	21.9	20.4	25.5

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Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/06/2022

Lab ID	:	CP-2022-07-25-46
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Maintaenance of Roads and Drains in Ward No.06 Byatarayanapura Sub Division.
Agency	:	M/S K R Constructions Prop.C Mahesh No.286, 7th B Cross, Jakkur, Layout, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/05/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-06-22
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	20/06/2022	27/06/2022	151.16 X 151.70 X 150.20	22930	9.073	417.8	18.2	18.4
2	M20 Concrete	M20	20/06/2022	27/06/2022	150.81 X 149.35 X 149.97	22524	8.966	411.2	18.3	
3	M20 Concrete	M20	20/06/2022	27/06/2022	150.96 X 149.06 X 151.47	22501	8.950	424.0	18.8	

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Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/07/2022

Lab ID	:	CP-2022-07-25-46
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Maintaenance of Roads and Drains in Ward No.06 Byatarayanapura Sub Division.
Agency	:	M/S K R Constructions Prop.C Mahesh No.286, 7th B Cross, Jakkur, Layout, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/05/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-06-22
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	20/06/2022	18/07/2022	151.54 X 151.83 X 149.86	23009	8.258	536.9	23.3	22.9
2	M20 Concrete	M20	20/06/2022	18/07/2022	149.98 X 149.10 X 149.13	22363	8.922	497.3	22.2	
3	M20 Concrete	M20	20/06/2022	18/07/2022	150.92 X 150.82 X 149.69	22761	8.512	524.7	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/06/2022

Lab ID	:	CP-2022-07-25-46
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Maintaenance of Roads and Drains in Ward No.06 Byatarayanapura Sub Division.
Agency	:	M/S K R Constructions Prop.C Mahesh No.286, 7th B Cross, Jakkur, Layout, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/05/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-06-22
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	20/06/2022	27/06/2022	151.55 X 150.21 X 150.48	22765	8.325	418.8	18.4	18.2
2	M20 Concrete	M20	20/06/2022	27/06/2022	150.81 X 151.85 X 150.20	22901	8.548	415.9	18.2	
3	M20 Concrete	M20	20/06/2022	27/06/2022	151.80 X 151.85 X 151.50	23051	8.976	418.3	18.1	

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Assistant Executive Engineer
Byatarayanapura Sub Division
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/07/2022

Lab ID	:	CP-2022-07-25-46
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Maintaenance of Roads and Drains in Ward No.06 Byatarayanapura Sub Division.
Agency	:	M/S K R Constructions Prop.C Mahesh No.286, 7th B Cross, Jakkur, Layout, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/05/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-06-22
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	20/06/2022	18/07/2022	151.20 X 151.56 X 149.53	22916	8.546	546.7	23.9	23.4
2	M20 Concrete	M20	20/06/2022	18/07/2022	149.10 X 151.33 X 149.09	22563	8.892	514.9	22.8	
3	M20 Concrete	M20	20/06/2022	18/07/2022	151.23 X 150.06 X 150.82	22693	8.374	534.0	23.5	

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ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/06/2022

Lab ID	:	CP-2022-07-25-46
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Maintaenance of Roads and Drains in Ward No.06 Byatarayanapura Sub Division.
Agency	:	M/S K R Constructions Prop.C Mahesh No.286, 7th B Cross, Jakkur, Layout, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/05/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-06-22
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	20/06/2022	27/06/2022	149.85 X 151.93 X 150.38	22767	9.057	424.4	18.6	18.6
2	M20 Concrete	M20	20/06/2022	27/06/2022	149.63 X 150.46 X 150.96	22514	8.340	416.4	18.5	
3	M20 Concrete	M20	20/06/2022	27/06/2022	150.39 X 149.44 X 151.94	22475	8.781	420.9	18.7	

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Assistant Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/07/2022

Lab ID	:	CP-2022-07-25-46
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Maintaenance of Roads and Drains in Ward No.06 Byatarayanapura Sub Division.
Agency	:	M/S K R Constructions Prop.C Mahesh No.286, 7th B Cross, Jakkur, Layout, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/05/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-06-22
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	20/06/2022	18/07/2022	149.52 X 151.85 X 149.24	22704	8.454	529.2	23.3	22.9
2	M20 Concrete	M20	20/06/2022	18/07/2022	149.53 X 149.35 X 150.77	22332	8.200	492.3	22.0	
3	M20 Concrete	M20	20/06/2022	18/07/2022	149.97 X 149.92 X 151.20	22483	8.228	525.6	23.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/06/2022

Lab ID	:	CP-2022-07-25-46
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Maintaenance of Roads and Drains in Ward No.06 Byatarayanapura Sub Division.
Agency	:	M/S K R Constructions Prop.C Mahesh No.286, 7th B Cross, Jakkur, Layout, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/05/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-06-22
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	20/06/2022	27/06/2022	151.93 X 151.26 X 151.85	22980	9.003	423.9	18.4	18.7
2	M20 Concrete	M20	20/06/2022	27/06/2022	151.68 X 149.67 X 150.15	22702	8.271	422.9	18.6	
3	M20 Concrete	M20	20/06/2022	27/06/2022	150.73 X 150.17 X 150.41	22636	8.126	428.0	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/07/2022

Lab ID	:	CP-2022-07-25-46
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Maintaenance of Roads and Drains in Ward No.06 Byatarayanapura Sub Division.
Agency	:	M/S K R Constructions Prop.C Mahesh No.286, 7th B Cross, Jakkur, Layout, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/05/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-06-22
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	20/06/2022	18/07/2022	149.06 X 151.34 X 150.67	22559	8.129	528.3	23.4	23.2
2	M20 Concrete	M20	20/06/2022	18/07/2022	151.59 X 150.58 X 149.38	22826	8.812	523.1	22.9	
3	M20 Concrete	M20	20/06/2022	18/07/2022	150.38 X 149.02 X 150.97	22410	8.428	519.3	23.2	

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Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-07-25-46** **Date: 27/06/2022**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Maintaenance of Roads and Drains in Ward No.06 Byatarayanapura Sub Division.
Agency	:	M/S K R Constructions Prop.C Mahesh No.286, 7th B Cross, Jakkur, Layout, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/05/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-06-22
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	20/06/2022	27/06/2022	151.88 X 150.50 X 150.76	22858	8.254	432.6	18.9	18.6
2	M20 Concrete	M20	20/06/2022	27/06/2022	149.41 X 151.86 X 151.07	22690	8.137	420.7	18.5	
3	M20 Concrete	M20	20/06/2022	27/06/2022	151.99 X 150.52 X 149.55	22877	8.806	419.8	18.4	

* The results obtained are satisfactory as per standard requirements.

Note:

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Byatarayanapura Sub Division
B.B.M.P Bangalore-560024

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/07/2022

Lab ID	:	CP-2022-07-25-46
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Maintaenance of Roads and Drains in Ward No.06 Byatarayanapura Sub Division.
Agency	:	M/S K R Constructions Prop.C Mahesh No.286, 7th B Cross, Jakkur, Layout, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/05/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-06-22
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	20/06/2022	18/07/2022	149.41 X 151.04 X 150.95	22567	8.764	538.7	23.9	23.2
2	M20 Concrete	M20	20/06/2022	18/07/2022	151.70 X 149.37 X 151.66	22659	8.495	500.5	22.1	
3	M20 Concrete	M20	20/06/2022	18/07/2022	150.51 X 149.17 X 149.43	22450	8.287	532.1	23.7	

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ಬಿಬಿಎಂಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Byatarayanapura Sub Division
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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/06/2022

Lab ID	:	CP-2022-07-25-46
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs and Maintaenance of Roads and Drains in Ward No.06 Byatarayanapura Sub Division.
Agency	:	M/S K R Constructions Prop.C Mahesh No.286, 7th B Cross, Jakkur, Layout, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/05/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-06-22
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	20/06/2022	27/06/2022	149.86 X 149.76 X 150.42	22442	8.870	412.4	18.4	18.4
2	M20 Concrete	M20	20/06/2022	27/06/2022	151.02 X 151.61 X 151.50	22896	8.584	413.7	18.1	
3	M20 Concrete	M20	20/06/2022	27/06/2022	149.70 X 149.37 X 149.37	22361	8.668	420.7	18.8	

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Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	20/06/2022	18/07/2022	150.71 X 150.23 X 149.15	22640	8.243	533.4	23.6	22.9
2	M20 Concrete	M20	20/06/2022	18/07/2022	151.02 X 151.28 X 151.66	22847	8.824	504.6	22.1	
3	M20 Concrete	M20	20/06/2022	18/07/2022	150.97 X 151.23 X 151.09	22831	8.800	527.2	23.1	

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